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NOTICE OF ALLOWANCE AND FEE(S) DUE

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7590

03/22/2010

CROWELL & MORING LLP INTELLECTUAL PROPERTY GROUP P.O. BOX 14300 WASHINGTON, DC 20044-4300

EXAMINER				
QIN, JIANCHUN				
ART UNIT	PAPER NUMBER			
2832				

DATE MAILED: 03/22/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/591.494	09/01/2006	Tsutomu Yamaguchi	056272.58171US	1869

TITLE OF INVENTION: KEY FOR KEYBOARD-BASED MUSICAL INSTRUMENTS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/22/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

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appropriate. All further	correspondence includir ed below or directed oth	ng the Patent, advance of	rders and notification of n	naintenance fees wi	ill be mailec	to the current	correspondence address as trate "FEE ADDRESS" for
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WASHINGTON	I, DC 20044-4300						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY	DOCKET NO.	CONFIRMATION NO.
10/591,494 TITLE OF INVENTION	09/01/2006 : KEY FOR KEYBOAR	RD-BASED MUSICAL I	Tsutomu Yamaguchi NSTRUMENTS		056272.	58171US	1869
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nonprovisional	NO	\$1510	\$300	\$0	•	\$1810	06/22/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
QIN, JIA	NCHUN	2832	084-42300R	ļ			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Unl recordation as set fort	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12" or more recent) attach ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp	Indication form and Use of a Customer		3 registered patent yely, e firm (having as a ggent) and the name rneys or agents. If n printed.	member a sof up to no name is	12	ocument has been filed for
4a. The following fee(s) Issue Fee Publication Fee (N	iate assignee category or	permitted)	 a. Payment of Fee(s): (Plea a. A check is enclosed. b. Payment by credit can c. The Director is hereby 	Individual Conse first reapply and	rporation or or y previously is attached.	paid issue fee	·
NOTE: The Issue Fee an	s SMALL ENTITY statu	us. See 37 CFR 1.27.	b. Applicant is no long	ger claiming SMAL	L ENTITY s	status. See 37 Cl	
interest as shown by the	records of the United Sta	ttes Patent and Trademark	c Office.				
Typed or printed nam	e			Registration No	0		
This collection of inform an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this but irginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the O NOT SEND FEES OR	on is required to obtain or r 1.14. This collection is est depending upon the indive e Chief Information Office COMPLETED FORMS TO	etain a benefit by th imated to take 12 m idual case. Any cor or, U.S. Patent and T D THIS ADDRESS.	ne public whininutes to comments on the Trademark O. SEND TO:	ch is to file (and mplete, including the amount of ting ffice, U.S. Depa Commissioner	I by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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CROWELL & MORING LLP		QIN, JIA	NCHUN		
	PROPERTY GROUP		ART UNIT	PAPER NUMBER	
P.O. BOX 14300 WASHINGTON,	DC 20044-4300		2832 DATE MAILED: 03/22/201	0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/591,494	YAMAGUCHI, TSUTOMU		
Notice of Allowability	Examiner	Art Unit		
	JIANCHUN QIN	2832		
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS	Э	
1. This communication is responsive to <u>amendment received</u>	<u>12/18/09</u> .			
2. ☑ The allowed claim(s) is/are <u>1-4</u> .				
 3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give				
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.			
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached		
1) hereto or 2) to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	office action of		
ldentifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the drawing he header according to 37 CFR 1.121(c	ngs in the front (not the back) of d).		
6. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT				
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☑ Examiner's Amendr 8. ☑ Examiner's Stateme 9. ☐ Other	(PTO-413), e		

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DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney Robert L. Grabarek, Jr. (Reg# 40,625) on March 2, 2010 and the follow-up email communication of March 11, 2010.

The application has been amended by replacing claim 1 with the following:

--1. (Currently Amended) A key for a keyboard-based musical instrument characterized by comprising:

a key body; and

a key touch member disposed on the top of said key body, made of a first synthetic resin having a <u>large number of</u> hydrophilic polymer <u>particles</u> added thereto <u>in a dispersed manner</u>, and for touching the key;

wherein the hydrophilic polymer has particles have a hydrophilic group in a main chain or a side chain thereof, and is are substantially uniformly dispersed in a base within said key touch member and unevenly distributed in an area near a surface of said key touch member, wherein said substantially uniform dispersal in the base is different from said uneven distribution in said area near said surface of said key touch member.—

Allowable Subject Matter

2. Claims 1-4 are allowed.

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Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance:

The primary reason for the allowance of claims 1-4 is the inclusion of the limitations of: a key touch member disposed on the top of said key body, made of a first synthetic resin having a large number of hydrophilic polymer particles added thereto in a dispersed manner, and for touching the key; wherein the hydrophilic polymer particles have a hydrophilic group in a main chain or a side chain thereof, and are substantially uniformly dispersed in a base within said key touch member and unevenly distributed in an area near a surface of said key touch member, wherein said substantially uniform dispersal in the base is different from said uneven distribution in said area near said surface of said key touch member. It is these limitations found in each of the claims, as they are claimed in the combination that have not been found, taught or suggested by the prior art of record, which make these claims allowable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jianchun Qin whose telephone number is (571) 272-

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5981. The examiner can normally be reached on 8am - 5:30pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on (571) 272-1990.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JIANCHUN QIN/
Primary Examiner, Art Unit 2832